RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	<u>/0/623,477</u>
Source:	1 FWP
Date Processed by STIC:	3/2/05

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial i	Number: 10/623,477	CRF Edit Date: 3/2/05 Edited by:
	Realigned nucleic acid/amino acid numbers/text text "wrapped" to the next line	in cases where the sequence
· · · · · · · · · · · · · · · · · · ·	Corrected the SEQ ID NO. Sequence numbers of	edited were:
teri-	Inserted or corrected a nucleic number at the en NO's edited:	d of a nucleic line. SEQ ID
	Deleted: invalid beginning/end-of-file text;	page numbers
	Inserted mandatory headings/numeric identifier (2207 in Sequence 2, 5	
	Moved responses to same line as heading/numer	
	Other:	

Revised 09/09/2003



IFWO

RAW SEQUENCE LISTING DATE: 03/02/2005 PATENT APPLICATION: US/10/623,477 TIME: 16:09:12

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Mizukami, Yukiko
              The Regents of the University of California
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              and Enhancing Asexual Reproduction in Plants
      6 <130> FILE REFERENCE: 023070-090720US
      7 <140> CURRENT APPLICATION NUMBER: 10/623,477
      8 <141> CURRENT FILING DATE: 2003-07-18
      9 <150> PRIOR APPLICATION NUMBER: US/09/479,855
     10 <151> PRIOR FILING DATE: 2000-01-07
     11 <160> NUMBER OF SEQ ID NOS: 8
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RAW SEQUENCE LISTING DATE: 03/02/2005
PATENT APPLICATION: US/10/623,477 TIME: 16:09:12

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RAW SEQUENCE LISTING DATE: 03/02/2005
PATENT APPLICATION: US/10/623,477 TIME: 16:09:12

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PATENT APPLICATION: US/10/623,477 TIME: 16:09:12

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RAW SEQUENCE LISTING DATE: 03/02/2005 PATENT APPLICATION: US/10/623,477 TIME: 16:09:12

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/02/2005 PATENT APPLICATION: US/10/623,477 TIME: 16:09:13

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VERIFICATION SUMMARY

DATE: 03/02/2005 TIME: 16:09:13 PATENT APPLICATION: US/10/623,477

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RAW SEQUENCE LISTING DATE: 03/02/2005 PATENT APPLICATION: US/10/623,477 TIME: 16:08:21

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1 <110> APPLICANT: Fischer, Robert L.

2 Mizukami, Yukiko

3 The Regents of the University of California

4 <120> TITLE OF INVENTION: Methods for Altering Organ Mass, Controlling Fertility

5 and Enhancing Asexual Reproduction in Plants

6 <130> FILE REFERENCE: 023070-090720US

7 <140> CURRENT APPLICATION NUMBER: 10/623,477

8 <141> CURRENT FILING DATE: 2003-07-18

9 <150> PRIOR APPLICATION NUMBER: US/09/479,855

10 <151> PRIOR FILING DATE: 2000-01-07

11 <160> NUMBER OF SEQ ID NOS: 8

12 <170> SOFTWARE: PatentIn Ver. 2.1
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Does Not Comply Corrected Diskette Needer

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	161		_	115			_	_	120	_	_	_	_	125	_	_	_,
	162	His	-	Glu	Ата	Met	Asp		Ser	Leu	Asp	Ser		Pne	Tyr	Asn	Thr
	163	 1	130	~ 7	_	_		135	1	_	51	~1	140	-,	_,	_	-1
	164		Hls	Glu	Pro	Asn		Inr	Thr	Asn	Pne		GIU	Pue	Pne	ser	
	165	145	a 1.	m1	3		150	01 .	a 1.	a 1.	ml.	155	3		~1		160
	166	Pro	GIN	Thr	Arg	Asn	HlS	GLU	GIU	GIU	ınr	Arg	Asn	Tyr	GIY	Asn	Asp

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1.60																
167	_		_		165	~3	~3	_	m 1	170		-1		_	175	~1
168	Pro	ser	Leu	Thr	Hls	GIY	GTĀ	Ser		Asn	vai	GIY	vaı	_	GIĀ	GIU
169	_,	3		180	_	_	_	_	185	_0	_	~ 1	_	190	_	_
170	Pne	GIn		Ser	Leu	Ser	Leu		Met	ser	Pro.	GIY		GIn	ser	ser
171			195					200			_		205			•
172	Cys		Thr	Gly	Ser	His		His	Gin	GIn	Asn		Asn	GIn	Asn	Hıs
173		210			•	_	215					220				_
174		Ser	Gln	Asn	His		Gln	Ile	Ser	Glu		Leu	Val	Glu	Thr	
175	225					230					235	_		_		240
176	Val	Gly	Phe	Glu		Thr	Thr	Met	Ala		Ala	Lys	Lys	Lys	_	GIY
177			_	-	245					250				•	255	_
178	GIn	Glu	Asp	Val	Val	Val	Val	Gly		Lys	GIn	Ile	Val		Arg	Lys
179				260					265	_			_	270	•	
180	Ser	Ile	_	Thr	Phe	Gly	Gln	_	Thr	Ser	GIn	Tyr		GLY	Val	Thr
181	_	•	275		_,		_	280			1	_	285		_	_
182	Arg		Arg	\mathtt{Trp}	Thr	Gly	_	Tyr	Glu	Ala	His		Trp	Asp	Asn	Ser
183		290	_				295		_	~-	_	300		_	_	
184		Lys	Lys	Glu	GIY		Ser	Arg	Lys	Gly	-	GIn	Val	Tyr	Leu	-
185	305	_	_			310	_			_	315	_	_	_		320
186	Gly	Tyr	Asp	Met		GIu	Lys	Ala	Ala	_	Ala	Tyr	Asp	Leu		Ala
187	_	_	_	_	325	_	_	_,		330	_	-,			335	_
188	Leu	Lys	Tyr	Trp	GIY	Pro	Ser	Thr		Thr	Asn	Phe	Ser		Glu	Asn
189	-	~ 7	_	340		~7	_		345	_		m)		350	~1	
190	Tyr	GIn	_	Glu	тте	GIu	Asp		Lys	Asn	Met	Thr	_	Gin	GIU	Tyr
191			355	_	_	_	_	360		~ 3	51 .		365	~1		
192	val		His	Leu	Arg	Arg		ser	Ser	GIY	Pne		Arg	GIY	Ala	ser
193	-7	370		~ 3	**- 7	m1	375	***	***	a1	**! -	380	7		a1	n 7 -
194		Tyr	Arg	Gly	vai		Arg	HIS	HIS	GIII		GIY	Arg	тгр	GIII	
195	385	T1.	~1	7	77-7	390	03	7	T	7	395	TT	T 011	~1	mb se	400
196	Arg	ire	GIY	Arg		Ala	Gry	ASII	ьуѕ	_	теп	ıyı	ьец	GIY	415	Pne
197	C1	The	~1 m	~1	405	ח ה	ת ד ת	C1	ת [ת	410	7 ~~	17 - I	717	ת ד ת		Tvc
198	GIY	TIIL	GIII	Glu 420	GIU	Ala	Ala	GIU	425	TAT	Asp	vai	Ата	430	116	пур
199 200	Dho	7 ~~	C111	Thr	7 cn	ת ד ת	Val	Thr		Dho	λcn	Tla	Thr		Тугу	Λαν
201	FIIE	Arg	435	IIII	ASII	мта	vai	440	MSII	FIIE	Asp	116	445	Arg	TYL	Asp
202	17 = 1	λαη		Ile	Mot	Car	Sor		Thr	T.011	T.011	Sar		Glu	T.011	בומ
202	Vai	450	Arg	116	Mec	Ser	455	POII	1111	пец	пец	460	Gry	GIU	пец	AIG
204	λνα		Λcn	Asn	λcn	Car		t/al	Wal.	λνα	λcn		Glu	Λen	Gln	Thr
205	465	Arg	ASII	ASII	ASII	470	116	Val	vai	AIG	475	1111	Giu	rsb	GIII	480
206		T 011	Λcn	Ala	17a l		Cl.	Clv	Gl _v	Cor		Lvc	Glu	17-1	Car	
207	Ата	пец	ASII	AIA	485	vai	Giu	Gry	GIY	490	Maii	пуъ	Gru	vai	495	1111
207	Dro	C1,,	7,200	Leu		cor	Dho	Dro	ת 1 ת		Dho	λla	Lou	Dro		Wal.
209	FIO	Gru	Arg	500	пец	Ser	FIIC	FIU	505	116	FIIC	Αια	пец	510	GIII	vai
210	λαn	Cln	Larc	Met	Dho	Clv	Car	Acn		Glv	Gl _V	Aen	Mot		Dro	Trn
211	voii	GIII	515	1.16.0	FIIG	GIY	Jer	520	rie C	GIY	GIY	won	525	JUL	110	115
212	Thr	Ser		Pro	Δen	Δla	Glu		Lare	Thr	Val	Δla		Thr	Leu	Pro
213	1111	530	11011	110	11011	2320	535	200	273	****	• 41	540	_ u		 cu	0
214	Gln		Pro	Val	Phe	ΔΊρ		Trn	Δla	Agn	Ser	J # U				
215	545	1.100	110	Val	rne	550	ty t a	P	ALC:	тор	555					
	J-1 J					220										

RAW SEQUENCE LISTING DATE: 03/02/2005 PATENT APPLICATION: US/10/623,477 TIME: 16:08:21

Input Set : N:\AMC\6639128.raw

Output Set: N:\CRF4\03022005\J623477.raw

```
414 <210> SEQ ID NO: 5
   415 <211> LENGTH: 548
   416 <212> TYPE: PRT
   417, <213> ORGANISM: Brassica napus
   418 <223 > OTHER INFORMATION: canola AINTEGUMENTA (ANT)
--> 419 <400> SEQUENCE: 5
   420
             Met Lys Ser Phe Cys Asp Asn Asp Asp Ser Asn Thr Thr Asn Leu Leu
   421
                                                   10
   422
             Gly Phe Ser Leu Ser Ser Asn Met Leu Lys Met Gly Gly Glu Ala
   423
                                               25
             Leu Tyr Ser Ser Ser Ser Ser Val Ala Thr Ser Ser Val Pro Pro
   424
   425 -
                                           40
             Gln Leu Val Val Gly Asp Asn Ser Ser Asn Tyr Gly Val Cys Tyr Gly
   426
   427
   428
             Ser Asn Leu Ala Ala Arg Glu Met Tyr Ser Gln Met Ser Val Met Pro
   429
                                  70
                                                       75
             Leu Arg Ser Asp Gly Ser Leu Cys Leu Met Glu Ala Leu Asn Arg Ser
   430
   431
                                                   90
             Ser His Ser Asn Asn His His His Ser Gln Val Ser Ser Pro Lys Met
   432
   433
                                              105
             Glu Asp Phe Phe Gly Thr His His His Asn Thr Ser His Lys Glu Ala
   434
   435
                                         120
                                                              125
   436
             Met Asp Leu Ser Leu Asp Ser Leu Phe Tyr Asn Thr His Ala Pro
   437
                                     135
                                                          140
             Asn Asn Asn Thr Asn Phe Gln Glu Phe Phe Ser Phe Pro Gln Thr Arq
   438
                                 150
                                                      155
   439
             Asn His His Glu Glu Glu Thr Arg Asn Tyr Glu Asn Asp Pro Gly Leu
   440
   441
                                                  170
             Thr His Gly Gly Gly Ser Phe Asn Val Gly Val Tyr Gly Glu Phe Gln
   442
   443
                         180
                                              185
             Gln Ser Leu Ser Leu Ser Met Ser Pro Gly Ser Gln Ser Ser Cys Ile
   444
   445
                                          200
   446
             Thr Ala Ser His His Gln Asn Gln Thr Gln Asn His Gln Gln Ile
                                      215
                                                          220
   447
             Ser Glu Ala Leu Val Glu Thr Ser Ala Gly Phe Glu Thr Thr Met
   448
                                 230
                                                      235
   449
             Ala Ala Ala Ala Lys Lys Lys Arg Gly Gln Glu Val Val Gly
   450
                                                  250
   451
                             245
             Gln Lys Gln Ile Val His Arg Lys Ser Ile Asp Thr Phe Gly Gln Arg
   452
                                              265
   453
             Thr Ser Gln Tyr Arg Gly Val Thr Arg His Arg Trp Thr Gly Arg Tyr
   454
   455
                                          280
             Glu Ala His Leu Trp Asp Asn Ser Phe Lys Lys Glu Gly His Ser Arg
   456
   457
                                      295
             Lys Gly Arg Gln Val Tyr Leu Gly Gly Tyr Asp Met Glu Glu Lys Ala
   458
   459
                                 310
                                                      315
   460
             Ala Arg Ala Tyr Asp Leu Ala Ala Leu Lys Tyr Trp Gly Pro Ser Thr
   461
                             325
                                                  330
             His Thr Asn Phe Ser Val Glu Asn Tyr Gln Lys Glu Ile Asp Asp Met
   462
```

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PATENT APPLICATION: US/10/623,477 TIME: 16:08:21

Input Set : N:\AMC\6639128.raw

Output Set: N:\CRF4\03022005\J623477.raw

463				340					345					350		
464	Lys	Asn	Met	Thr	Arg	Gln	Glu	Tyr	Val	Ala	His	Leu	Arg	Arg	Lys	Thr
465			355					360					365			
466	Ser	Gly	Phe	Ser	Arg	Gly	Ala	Ser	Ile	Tyr	Arg	Gly	Val	Thr	Arg	His
467		370					375					380				
468		Gln	His	Gly	Arg		Gln	Ala	Arg	Ile		Arg	Val	Ala	Gly	
469	385					390					395					400
470	Lys	Asp	Leu	Tyr		Gly	Thr	Phe	Gly		Gln	Glu	Glu	Ala		Glu
471					405					410				_	415	
472	Ala	Tyr	Asp		Ala	Ala	Ile	Lys		Arg	Gly	·Thr	Asn		Val	Thr
473				420					425					430	_	_
474	Asn	Phe	_	Ile	Thr	Arg	Tyr	_	Val	Asp	Arg	Ile		Ala	Ser	Asn
475	_,	_	435		~-3	~ 3		440	_	_	_	_	445			
476	Thr	Leu	Leu	Ser	GIY	Glu		Ala	Arg	Arg	Asn		Asn	Ser	IIе	Val
477		450	_	~ 7	_	_	455	~7			_	460			1	_
478		Arg	Asn	TTe	ser		GIU.	GIU	Ala	АТа		Thr	Ата	vai	vai	
479	465	~1		.	_	470		~ 1	a		475		•••	.		480
480	GLY	Gly	Ser	Asn	-	GIU	vaı	GIY	ser		GIU	Arg	vai	ьeu		Pne
481	5	m1	~1	m1	485	+	D	a1	**- 3	490	D	7	1	Dl	495	77-
482	Pro	Thr	me		АТА	Leu	Pro	GIN		GIY	Pro	ьys	мес		GIA	Ala
483 484	7 ~~	777	7707	500	7 ~~	Mot	Com	Com	505	mb sc	mb sc	7 an	Dwo	510	~ ד ת	7 ~~
485	ASII	Val	515	GIY	ASII	Met	ser	520	пр	1111	1111	ASII	525	ASII	Ala	Asp
486	T ON	Trra		17-1	Cox	T 011	Thr		Dro	~1 n	Mot	Dro		Dho	הוג	י בור
487	теп	БУS 530	1111	val	ser	ьец	535	пеп	PIO	GIII	וזפנ	540	val	FIIE	нта	Ala
488	Ттъ	Ala	Λer	Sar			535					240				
489	545	AIA	rah	Ser												
403	243															

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/02/2005 PATENT APPLICATION: US/10/623,477 TIME: 16:08:22

Input Set : N:\AMC\6639128.raw

Output Set: N:\CRF4\03022005\J623477.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 4

VERIFICATION SUMMARY

DATE: 03/02/2005 TIME: 16:08:22

PATENT APPLICATION: US/10/623,477

Input Set : N:\AMC\6639128.raw

Output Set: N:\CRF4\03022005\J623477.raw

L:20 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order! L:21 M:281 W: Numeric Fields not Ordered, <222> Sort in ascending order!

L:145 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:2

L:303 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order! L:304 M:281 W: Numeric Fields not Ordered, <222> Sort in ascending order!

L:419 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:5